

ABSTRACT OF THE DISCLOSURE

5 An arrangement including a scannable matrix for predicting the occurrence of a
future collision of frequency hops of the channel hopping patterns on the respective
activated first paths of a Bluetooth packet transmission system is described. A first
coordinate of the matrix defines columns representative of a selectable window of N
successive future time slots of the channel hopping patterns, and a second coordinate of
the matrix defines rows each exhibiting the successive frequency hops of the patterns
10 segments transmitted on a separate one of the activated channels during such window. The
first coordinate is scanned to detect the occurrence, if any, of identical frequency hops
appearing at an intersection of the then-scanned column and at least a pair of the rows. If
a particular scan does not detect an occurrence of such identical frequency hops in any of
the time slots of the scanned window, the first coordinate may be incremented by a
15 selected number of time slots at the end of the scan, and the scan is then successively
repeated for each new window that results. If and when identical frequency hops are
detected in a particular future time slot during a scan, the channel hopping pattern(s) on a
subset of the affected channels may be suitably altered. to avoid the predicted collision.